



ABSTRACT

An actuator includes a solenoid with a ferromagnetic nucleus which slides inside the solenoid. The
5 nucleus is combined with a rod appropriate for interacting with a turbocharger's pivot point. The actuator is provided with a sensing system of the position of the ferromagnetic nucleus in the solenoid. The actuator also includes an electronic circuit which: - on the way in receives at least
10 the signal from the engine's electronic control unit and the feedback signal, connected to the position of the ferromagnetic nucleus of the solenoid; - on the way out it distributes the electric current, connected to the entry signals, with which it feeds the solenoid.